

Dear all,

Here are the minutes from today's meeting.

Due to the conflict with QM2022 conference, the next week meeting is canceled. Our next meeting will be April 14th (in BNL) and 15th in Asia.

o Production Status <Itaru>

- The BCLK board production has been started. Schedule will be updated soon.
- Batch-2 BEX will be shipped to BNL by the end of April.
- Upto 8 good ROCs are to be shipped to BNL in the middle of April after pasting heat sinks to the regulators.
- Based on the IPEX's simulation study, the their micro-Coax is expected to perform similar signal transmission capability at 400MHz.

o BNL activities <Rachid>

- All fixtures for barrel are all delivered to BNL. Survey is scheduled in next Monday.
- Dark box for half barrel is ready.
- **Genki** will discuss about the GUI for masking single chip in the next meeting.
- Preliminary review (not final) for the FELIX is scheduled April 12. Dress rehearsal is scheduled in this week. John Haggerty, Rachid, and Raul will give a talk in the review.
- BNL is back in normal operation. No self-quarantine required any longer even for foreigners.

o Beam Test Analysis <Cheng-Wei>

- No satellite peak observed in Run52 and 54. No obvious condition change is aware between these runs and last runs 89, etc except for the bus extender. If there is any change, then it must be the electronics in the veto logic. However, direct source of the satellite peak has been not identified yet.
- The next step of investigate the thinner MC peak of the residual distribution data is to review the INTT GEANT model in the next meeting. **Genki** prepare materials.

o Efficiency analysis of the beam test <Genki>

- **Genki** will revisit the QA round and make sure to mask off hot, noisy, dead strips.
- **Genki** should introduce noise in MC based on noise hit rate for the given threshold. The noise hit rate can be taken from the test bench measurement or actual beam test measurement

using away side are of the beam spot.

- **Genki** should check the threshold in MC if the it is reasonable.

o QM poster <Genki>

- Motivation slide is missing. Try to squeeze in physics motivation slide by eliminating summary slide.

- Make a statement that "We are ready for the installation".

- Include a photograph of the Tohoku beam test.

o Power Supply Check of Tohoku Beam Test <Itaru>

- The voltmeter measurement of the bias power supply used for Tohoku beam test was performed in NWU last week with Yumika. The power supply output voltage was actually indeed observed 50V when the voltage was set at 50V in the front panel regardless of simultaneous multiple output channels use. Thus the cause of the lower MIP peak position in DAC scan result of Tohoku beam test compared to the predicted value remain mystery. We don't understand why. Itaru is running out of idea what we can do to pin this down further except for actual voltage scan with a source. The rate is low, but there still be a punch through radiations. Not sure if such a punch throughs form a peak like MIP though. Any idea?

Best regards,

-itaru

On 2022/04/01 10:04, Itaru Nakagawa wrote:

----- Forwarded Message -----

Subject: (riken-intt-list:01817) INTT Weekly Meeting
Date: Thu, 31 Mar 2022 19:21:17 +0900
From: Itaru Nakagawa (Riken-intt-list 経由) < riken-intt-list@ml.riken.jp >
Reply-To: riken-intt-list@ml.riken.jp

To: riken-intt-list@ml.riken.jp <riken-intt-list@ml.riken.jp>

CC: [itaru Nakagawa](mailto:itaru@riken.jp) <itaru@riken.jp>

Dear all,

We'll have the weekly meeting in following time.

March. 31th Thursday 9PM in BNL = April 1st Friday 10AM in Japan = Friday 9AM in Taiwan

*indico

<https://indico.bnl.gov/event/15329/>

*Zoom

<https://zoom.us/j/92149923535>

Best regards,

-itaru

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